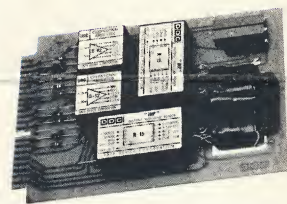
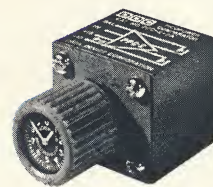
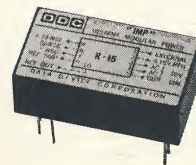
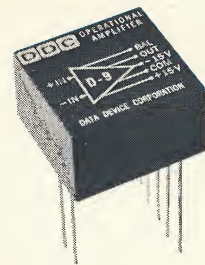


SHORT FORM CATALOG



DDC

**OPERATIONAL AMPLIFIERS
PICOPOWER COMPARATOR/RELAYS
"IMP"s INSTANT MODULAR POWER SUPPLIES**



OPERATIONAL

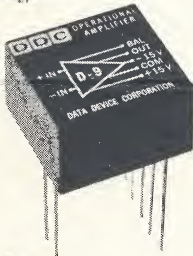
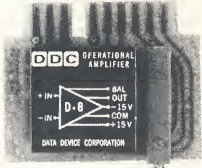
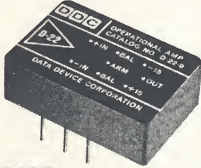
DDC "AMPS" AND "IMPS"

DDC offers a wide range of "assured reliability" operational amplifiers, current boosters, A.C. powered amplifiers and "IMPS" (Instant Modular Power Supplies).

New general and special purpose amplifiers are continuously being developed at DDC. Before specifying, check performance—price and delivery with your DDC Representative.

DDC QUALITY ASSURANCE

All DDC units are manufactured in rigorous compliance with MIL-Q-9858A quality standards. Through the use of advanced silicon circuitry, automated production and test techniques, excellent performance is achieved at very reasonable cost. Conservative design, complete traceability of component parts, 100 hour operational aging, two complete salient parameter tests and DDC's unique short circuit protection are your assurance of long and trouble-free operation.



AMPLIFIER	STANDARD SERIES									
	NEW D-6 Economy with Good Performance		NEW D-7 General Purpose		D-8 General Purpose Low Offset Current		NEW D-9 5MA Output High Frequency		NEW D-11 D-11-9 Low Cost High Current	
SPECIFICATIONS (at 25°C unless noted)										
A. Voltage Gain, Open Loop DC Decibels @ Rated Load	82M	86T	90M	93T	86M	90T	86M	90T	100M	105T
B. Frequency Response										
1. Freq. for Full Output—KC	15M	20T	12M	15T	18M	25T	35M	50T	10M	13T
2. Freq. for Unity Gain—MC	1.5M	2.5T	1.0M	1.7T	5.0M	10.0T	10M	20T	0.8M	1.0T
3. Slewing Rate—V/μ sec.	0.94M	1.25T	0.7M	0.9T	1.1M	1.6T	2.2M	3.1T	0.6M	0.8T
C. Rated Output										
1. Voltage—V @ Rated Load	±10M		±11M		±11M		±10M	±11T	±10M	
2. Current—MA	±2M		±2.2M		±2.2M		±5M		±20.0M	
D. Input Voltage Offset										
1. Init. Offset—MV (Balance Pot.)	ADJ. TO ZERO (10KΩ)		*ADJ. TO ZERO (50KΩ)		*ADJ. TO ZERO (50KΩ)		*ADJ. TO ZERO (50KΩ)		0.5T	1.0X (5KΩ)
2. Voltage Drift—Time μV/24 hr.	—		15T	40X	30X		30X		50T	
3. Voltage Drift—Temp.—μV/°C	10T	20X	15T	25X	10T	20X	10T	20X	10T	25X
E. Input Current Offset										
1. Init. Offset—NA	20T	75X	15T	30X	8T	20X	8T	20X	10T	20X
2. Curr. Drift—Time—NA/24 hr.	—		20X		1.5T		1.5T		—	
3. Curr. Drift—Temp.—NA/°C	3T	6X	1.0T	2.0X	0.8T	1.2X	0.8T	1.2X	0.5T	0.8X
F. Input Impedance										
1. Differential—Meg Ω	0.18M	0.3T	0.2M	0.275T	0.2M	0.275T	0.2M	0.275T	0.6M	1.0T
2. Common Mode—Meg Ω	8M	12T	12M	20T	10M	25T	10M	25T	50M	100T
G. Input Noise—μV RMS	6T		3.5T	5X	1.5T	3X	3T	5X	6T	10X
H. Common Mode Voltage—V P-P	±7X		±11X		±11X		±11X		±10X	
I. Power Requirements										
1. Voltage—V	±15T		±15T		±15T		±15T		±15T	
2. Current—Quiescent—MA	8T	8.5X	6.5X		6.5X		12X		5T	
3. Current—Full Load—MA	12.5X		8.8X		8.5X		18X		25T	
4. Current—Short Circuit—MA	—		10T	12X	10T	12X	30X		45T	50X
J. Temperature Range										
1. Operation— (Optimum Range) (Maximum Range)	—25°C to +85°C		—25°C to +85°C		—25°C to +85°C		—25°C to +85°C		—25°C to +85°C	
2. Storage	—55°C to +100°C		—55°C to +100°C		—55°C to +100°C		—55°C to +100°C		—55°C to +100°C	
K. Weight	0.5 oz.		<1 oz.		<1 oz.		<1 oz.		See Note 1	
L. Volume	0.5 in ³		<0.8 in ³		<0.8 in ³		<0.8 in ³		See Note 1	
M. Mechanical Specifications										
1. Standard Packaging	Fig. 1		Fig. 2		Fig. 2		Fig. 2		D-11: Fig. 2 D-11-9: Fig. 3	
2. Options	Figure 5		Figures 4, 5		Figures 1, 4, 5		Figures 1, 4, 5			
3. Socket	9005		9005		9005		9005		9005 (D-11 only)	
N. Remarks	Short-Circuit Proof Comm. Mode Reject. Ratio: 96 db Typ.		Fully Short-Circuit Proof		Fully Short-Circuit Proof		Fully Short-Circuit Proof		Fully Short-Circuit Proof	

LEGEND:
M = Minimum Requirement
X = Maximum Requirement
T = Typical Value

APPLICABLE SPECIFICATIONS:
Quality: MIL-Q-9858A
Environmental: MIL-STD-202C
Reliability: MIL-HDBK-217

NOTE:
1. D-11 and D-22 weigh 1.1 oz. and occupy 0.8 in³
D-11-9 and D-22-9 weigh 1.3 oz. and occupy 1.3 in³
* Available in Self-Balanced Version

MECHANICAL SPECIFICATIONS:

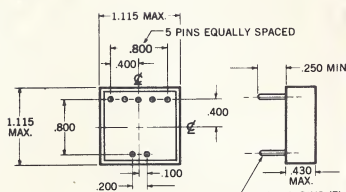


FIGURE 1

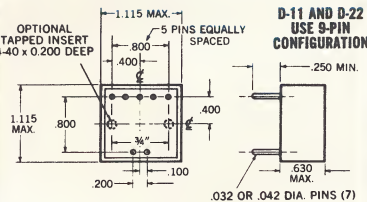


FIGURE 2

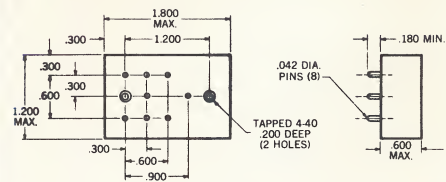


FIGURE 3

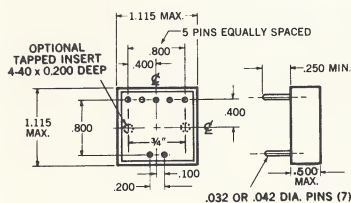


FIGURE 4

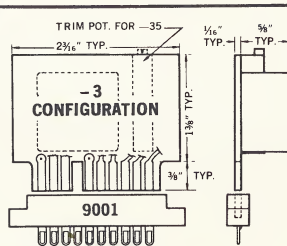
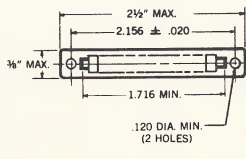
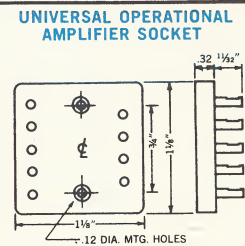


FIGURE 5



CONNECTOR PART NO. 9001



SOCKET PART NO. 9005

WRITE, WIRE OR CALL FOR DETAILED DATA AND PRICES

AMPLIFIERS

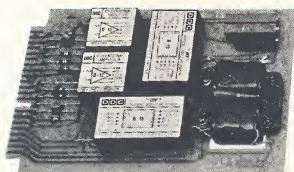
HIGH PERFORMANCE SERIES

D-12 Premium General Purpose		NEW D-18 High Stability		D-16 High Input Impedance		NEW D-22 D-22-9 High Current, High Stability		NEW D19 FET Input	
90M	93T	86M	88T	86M	90T	100M	105T	100M	
12M	15T	15M	20T	10M	13T	10M	13T	100M	
1.0M	1.7T	1.5M	2.0T	1.0M	1.2T	1.0M	1.3T	10M	
0.7M	0.9T	0.9M	1.25T	0.6M	0.8T	0.6M	0.8T	6M	
$\pm 11M$		$\pm 11M$		$\pm 11M$		$\pm 10M$		$\pm 10M$	
$\pm 2.2M$		$\pm 2.2M$		$\pm 2.2M$		$\pm 20.0M$		$\pm 5M$	
ADJ. TO ZERO (50K Ω)		ADJ. TO ZERO (50K Ω)		ADJ. TO ZERO (50K Ω)		0.5X (5K Ω)		ADJ. TO ZERO (50K Ω)	
15T		25X		50T		50T		—	
10T		5T		20T		5T		10T	
10T		2T		10T		5T		0.100X	
20X		1.5T		0.5T		—		—	
0.8T		0.45T		0.1T		0.45T		10-4X	
0.2M		0.6M		10M		0.6M		10 ⁵ M	
12M		55M		150M		50M		10 ⁵ M	
3.5T		3.0T		15T		4T		—	
$\pm 11X$		$\pm 11X$		$\pm 11X$		$\pm 10X$		$\pm 10X$	
$\pm 15T$		$\pm 15T$		$\pm 15T$		$\pm 15T$		$\pm 15T$	
6.5X		6.5X		6.5X		5T		12X	
8.8X		8.8X		8.8X		25T		18X	
10T		10T		10T		40T		30X	
-25°C to +85°C		-25°C to +85°C		-25°C to +85°C		-25°C to +85°C		-25°C to +85°C	
-55°C to +85°C		-55°C to +85°C		-55°C to +85°C		-55°C to +85°C		-55°C to +85°C	
-55°C to +100°C		-55°C to +100°C		-55°C to +100°C		-55°C to +100°C		-55°C to +100°C	
<1 oz.		<1 oz.		<1 oz.		See Note 1		<1 oz.	
<0.8 in ³		<0.8 in ³		<0.8 in ³		See Note 1		<0.8 in ³	
Fig. 2		Fig. 2		Fig. 2		D-22: Fig. 2 D-22-9: Fig. 3		Fig. 2	
Figures 1, 4, 5		Figures 4, 5		Figures 4, 5		9005 (D-22 only)		Figure 5	
9005		9005		9005		9005 (D-22 only)		9005	
Fully Short-Circuit Proof		Fully Short-Circuit Proof		Fully Short-Circuit Proof		Fully Short-Circuit Proof		Fully Short-Circuit Proof	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

C-SERIES

A.C. POWERED OPERATIONAL AMPLIFIERS



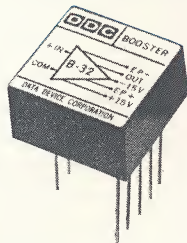
The C-Series is a completely assembled operational amplifier that requires only 115 vac for operation. It is mounted on a 4 1/2" x 6 1/2" p-c card and is ready for insertion in a standard card rack or mounting in instrumentation or systems.

Included on the card is a miniature dual power supply, one or two DDC operational amplifiers, transformer, trim potentiometer, p-c wiring and space for up to twelve discrete circuit components. When the components are mounted (six maximum for each operational amplifier) the amplifiers function in a variety of conventional-feedback configurations such as an integrator, summer, voltage follower and inverting amplifier.

Amplifier performance may be selected from any of the DDC operational amplifier modules. Typical amplifiers have open-loop gain in excess of 86 db, temperature coefficients from <5 μ V/°C and output currents of 2 to 20 ma at d-c to 20 MC.

Request Detailed Specs.

CURRENT BOOSTERS

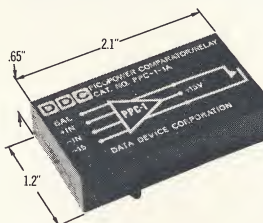


The B-series boosters are all silicon, short-circuit proof, current amplifiers designed to extend the output current range of DDC operational amplifiers with excellent stability.

Characteristics (@ 25°C unless otherwise noted)	Type	
	B-34	B-32
CURRENT, OUTPUT (min.)	± 100 ma	± 50 ma
VOLTAGE, OUTPUT (min.)	± 11 V	± 10 V
CURRENT GAIN (min.)	400	25
IMPEDANCE, OUTPUT	3 Ω	5 Ω
QUIESCENT CURRENT	± 10 ma	± 1 ma
TEMPERATURE RANGE		
Operation:	-55°C to	+85°C
Storage:	-55°C to	+85°C
SIZE	1.2" x 2.1" x 0.65" h	1 1/8" x 1 1/8" x 5/8" h

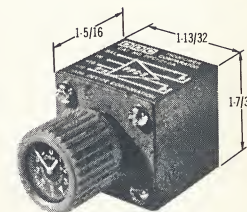
PICOPOWER COMPARATOR/RELAYS

The PPC-1 and PPC-2 are economical, ultra sensitive solid state comparator/relays with wide applications in instrumentation and automation. The comparators can be actuated directly by signals from strain gauges, thermocouples and other transducers.



TYPE PPC-1

Requires external reference voltage. Contact Forms: 1A, 1C, 2A.
Mounting: P.C. card or 9005 Socket.



TYPE PPC-2

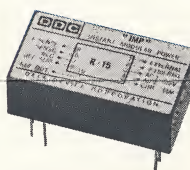
Integral potentiometer voltage trip-point adjustment. Contact Forms: 1A, 1C, 2A, 2C, 3A.
Mounting: Panel mounting.

ELECTRICAL SPECIFICATIONS

Sensitivity: <0.5mV
Input Impedance: >350K
Maximum input voltage to ground either terminal: 10 volts
Power Supply Requirements:
 ± 15 v @ <5mA
Power Input: <1.0 picowatts
Repeatability: <2 milliseconds
Temperature Range: -25°C to +85°C

Contact Rating: 200 volts D.C. (400V D.C. breakdown), .5 amp, 10 watts D.C.
Contact Resistance: 0.1 Ω
Leakage Current: 75nA (Max), 20nA (Typ)

Maximum Input
Terminal Voltage: ± 15 volts

"IMPS" INSTANT MODULAR POWER SUPPLIES
MOUNT ON YOUR PC CARD

DDC "IMPS"—Instant Modular Power Supplies—are miniature encapsulated DC voltage regulator modules specifically designed for micro-circuit and discrete component applications. R-Series regulators may be mounted on your PC cards immediately adjacent to the components being powered. The T-Series transformer modules permit direct operation from unregulated 115V AC 50-440 cps. Where a completely assembled card mounted supply is desired, the CP-Series provides the designer with a flexible, economical method of putting power where the parts are.

IMP REGULATORS	Type	
	R-15	R-16-2
Characteristics (@ 25°C unless otherwise noted)		
Input	22V RMS @ 50-440cps 24 to 30V DC	± 24 V to ± 30 V DC with $V_{RIP} < 5V_{D-P}$
Output Voltage	Adj. 12V to 18V	Adj. ± 10 V to ± 18 V
Output Current	25mA	± 200 mA to ± 300 mA
Regulation— Line or Load	$\pm 0.005\%$	$\pm (0.01\% + 1mV)/$ Section
Ripple and Noise	<250 μ V RMS	<250 μ V RMS/Section
Temp. Coefficient	0.02%/°C	0.015%/°C
Temp. Range: Operating Storage	-25°C to +85°C -55°C to +100°C	-25°C to +75°C -55°C to +100°C
Size & Mechanical Specs.	1.2" x 2.1" x 0.65" Molded Epoxy Package	2" x 4 1/4" x 3/4" Molded Epoxy Package

IMP TRANSFORMERS	Type	
	T-20	T-21
Characteristics		
Input	115V $\pm 10\%$, 50-440cps	115V $\pm 10\%$, 50-440cps
Output Voltage	Dual 22V RMS	Dual 27V DC, Filtered
Output Current	40mA RMS/Section	250mA DC/Section
Size & Mechanical Specs.	2" x 2" x 3/4" Open Frame—Epoxy Dipped	4" x 4 1/4" x 1" Molded Epoxy Package

CARD MOUNTED POWER SUPPLIES	Type	
	CP-10	CP-11
Characteristics		
Input	115V $\pm 10\%$, 50-440cps	115V $\pm 10\%$, 50-440cps
Output	Adj. ± 12 V to ± 18 V @ ± 25 mA	Adj. ± 10 V to ± 18 V @ ± 200 mA
Regulator Type	R-15	R-16-2
Size	4 1/2" x 6 1/2" x 1 1/8" h Mates with 22-pin edge mounted connector	4 1/2" x 6 1/2" x 1" h Mates with 22-pin edge mounted connector

NOTE: Height Dims. are Above P. C. Board



DATA DEVICE CORPORATION • 240 Old Country Road, Hicksville, N. Y. 11801 • TWX: 516-433-5779

Phone: 516-433-5330



JUNE 1966

PRICE LIST

Prices subject to change without notice.

OPERATIONAL AMPLIFIERS

	Model	1-9	10-24	Socket
Economy with stability, 75nA offset, 2mA	D-6	\$18.00 ✓	\$18.00 ✓	9005
	D-6-3	21.00 ✓	21.00 ✓	9001
	D-6-35	23.50 ✓	23.50 ✓	9001
General purpose, 25μV/°C, 2.2mA	D-7	27.00	24.80 ✓	9005
	D-7-3	30.00 ✓	27.30 ✓	9001
	D-7-35	34.00 ✓	30.80 ✓	9001
Low offset current, 20nA offset, 2.2mA	D-8	29.00	26.00 ✓	9005
	D-8-3	32.00 ✓	28.50 ✓	9001
	D-8-35	36.00 ✓	32.00 ✓	9001
5mA output, HI frequency, #D-9 35Kc FFO, 10Mc bandwidth	D-9	31.00	29.00	9005
	#D-9-3	34.00	31.50	9001
	#D-9-35	38.00	35.00	9001
Low cost--20mA, 25μV/°C, 20nA offset	D-11	60.00	57.00	9005
	D-11-9	65.00	63.00	9006
Premium, general purpose, 15μV/°C, 2.2mA output	D-12	55.00	52.00	9005
	D-12-3	58.00 ✓	54.50 ✓	9001
	D-12-35	62.00 ✓	58.00 ✓	9001
High input impedance, 150MΩ Common mode Z	D-16	85.00	79.00	9005
	D-16-3	88.00 ✓	81.50 ✓	9001
	D-16-35	92.00 ✓	85.00 ✓	9001
High stability, 5nA offset, 10μV/°C	D-18	65.00 ✓	63.00 ✓	9005
	D-18-3	68.00 ✓	65.50 ✓	9001
	D-18-35	72.00 ✓	69.00 ✓	9001
FET Input	#D-19	Consult Factory		9005
High current--20mA, 15μV/°C, 10nA offset	D-22	78.00 ✓	75.00 ✓	9005
	D-22-9	85.00	79.00	9006

NOTE: -3 and -35 models are mounted on 2 3/16" x 1 3/4" PC card. See Fig. 5 of the short form catalog or individual data sheets for outline drawings. The -35 includes a 10-turn potentiometer for trimming offset voltage to zero.

CURRENT BOOSTERS

	Model	1-9	10-24
50mA	B-32	\$45.00	\$41.00 ✓
100mA	B-34	55.00 ✓	52.00 ✓

SOCKETS & CONNECTORS

	Model	1-9	10-24
For -3 & -35 cards	9001	\$ 1.75	\$ 1.75
For C & CP Series	9002	2.25	2.00
For all standard amps.	9005	3.75	3.50
For -9 series amplifiers	#9006	2.80	2.50

NOTES: # New Unit
✓ Price Decrease
^ Price Increase

MILITARIZED (QPL) AND "HI REL" UNITS:

Fully militarized versions of most DDC amplifiers are available. Consult the factory.

QUANTITY PRICES:

Contact factory or your authorized DDC Engineering Representative for prices and delivery on quantities of 25 or more, for quotations on modified or special units, or new amplifiers currently under development.

DELIVERY:

DDC endeavors to keep all standard amplifiers available for delivery in moderate quantities from stock to 10 days maximum. On urgent orders, please contact your DDC Representative or the factory for specific delivery dates.

TERMS:

1/2% 10 days, Net 30 days. FOB Hicksville, New York

MINIMUM ORDER:

\$10.00

C-SERIES A.C. POWERED OPERATIONAL AMPLIFIERS

1 Amplifier Per Card

	1-4	5-9	10-24
C-06	\$173.00 ✓	\$170.00 ✓	\$165.00 ✓
C-07	183.00 ✓	180.00 ✓	175.00 ✓
C-08	185.00 ✓	182.00 ✓	177.00 ✓
C-09	187.00 ✓	184.00 ✓	180.00 ✓
*C-11	212.00 ✓	208.00 ✓	202.00 ✓
C-12	210.00 ✓	206.00 ✓	200.00 ✓
C-16	240.00 ✓	236.00 ✓	230.00 ✓
C-18	220.00 ✓	216.00 ✓	211.00 ✓
*C-22	230.00 ✓	222.00 ✓	220.00 ✓

*Without potentiometer, unit self balanced

2 Amplifiers Per Card

	1-4	5-9	10-24
C-0606	\$194.00 ✓	\$192.00 ✓	\$190.00 ✓
C-0707	218.00 ✓	212.00 ✓	208.00 ✓
C-0808	222.00 ✓	216.00 ✓	211.00 ✓
C-0909	226.00 ✓	220.00 ✓	217.00 ✓
C-1212	267.00 ✓	263.00 ✓	254.00 ✓
C-1616	332.00 ✓	318.00 ✓	316.00 ✓
C-1818	287.00 ✓	283.00 ✓	276.00 ✓

"IMPS" INSTANT MODULAR POWER SUPPLIES

CARD MOUNTED POWER SUPPLIES

	1-4	5-9	10-24
CP-10 ±15V, 25mA	\$149.00 ✓	\$146.00 ✓	\$144.00 ✓
#CP-11 ±15V, 250mA	169.00	163.00	155.00

IMP REGULATORS

	1-4	5-9	10-24
R-15 AC/DC-DC	\$ 55.00 ✓	\$ 52.00 ✓	\$ 49.00 ✓
#R-16-2 DC-DC	95.00	93.00	89.00

TRANSFORMER MODULES

	1-4	5-9	10-24
T-20 For 2 R-15's	\$22.50	\$ 19.75 ✓	\$ 18.50 ✓
#T-21 For R-16-2	58.00	55.50	53.00

PICOPower COMPARATOR/RELAYS

	1-9	10-24	Contact Form Standard	Optional at extra cost
# PPC-1	\$ 35.00	\$ 29.00	1A	1C, 2A
*#PPC-2	74.00	68.00	1A	1C, 2A, 2C, 3A

*Includes Bourns "Knobpot"

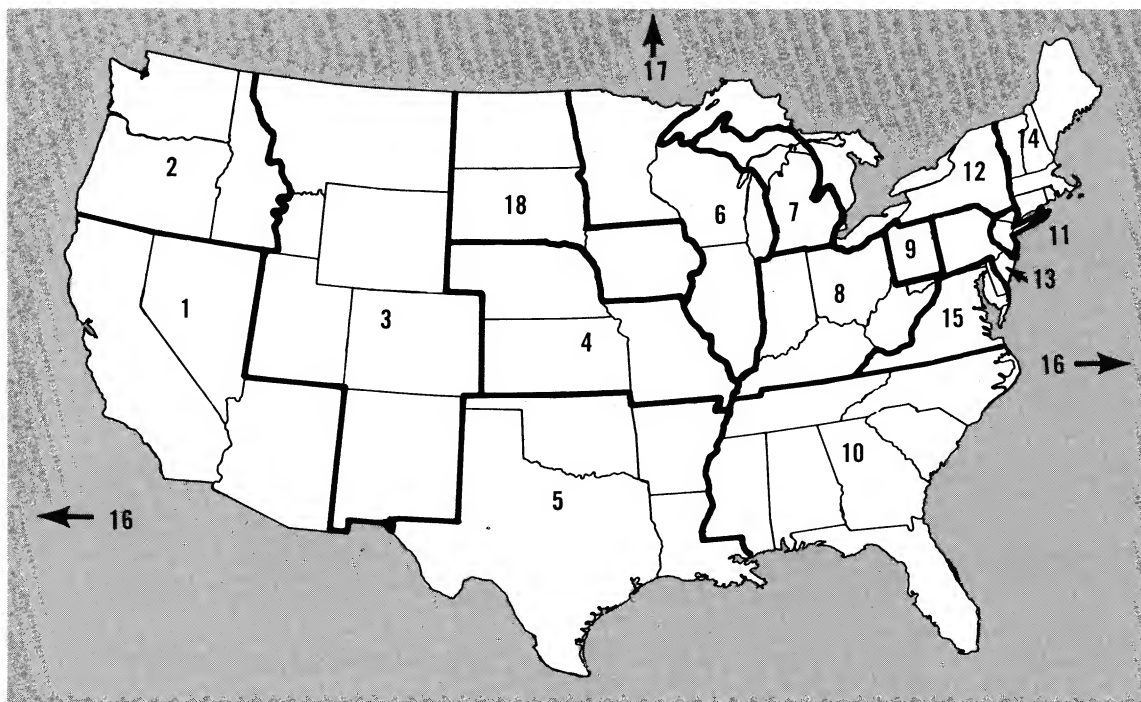


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CORPORATION**

ENGINEERING SALES REPRESENTATIVES



- | | | | |
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Pasadena, Calif. 91101
(213) 684-2000 | 5. Scientific Sales Co.
3603 Lemmon Ave.
Dallas, Texas 75219
(214) 528-0553 | Reynolds & Assoc., Inc.
Suite 122
904 Bob Wallace Ave.
Huntsville, Ala.
(205) 536-1941 | Kastle Associates
50 Messenger La.
Willingboro, N.J. 08046
(609) 877-5971 |
| Luscombe Eng. Co.
220 East 3rd Ave.
San Mateo, Calif.
(415) 342-7057 | Scientific Sales Co.
2337 Bissonnet St.
Houston, Texas 77005
(713) 528-6904 | Reynolds & Assoc., Inc.
P. O. Box 1043
Eau Gallie, Fla.
(305) 254-0520 | 14. Broger Instrument Sales Co.
176 Second Ave.
Waltham, Mass. 02154
(617) 891-8045 |
| Luscombe Eng. Co.
3130 North 3rd Ave.
Phoenix, Arizona 85013
(602) 274-1542 | 6. Communications Engrs.
7100 N. Western Ave.
Chicago, Illinois 60645
(312) 761-0548 | Reynolds & Assoc., Inc.
P. O. Box 13173
Station K
Atlanta, Georgia
(404) 876-0652 | Broger Instrument Sales Co.
31 Broadway
P. O. Box 2917
New Haven, Conn. 06515
(203) 777-6279 |
| 2. James J. Backer Co.
221 West Galer St.
P. O. Box 9327
Seattle, Wash. 98119
(206) 283-6470 | 7. Anderson Electronics
19471 Jas. Couzens Hwy.
Detroit, Mich. 48235
(313) 342-7133 | 11. H.A.F. Spectrum Assoc.
35 Broadfield Rd.
New Rochelle, N.Y. 10804
(914) 632-3800 | 15. Wild & Associates
H. John Heffernan
1011 N. Highland St.
Arlington, Va. 22201
(703) 524-2274 |
| 3. D. E. Bond Assoc.
5650 E. Evans Ave.
Denver, Colo. 80222
(303) 756-1234 | 8. McShane
114 Trails End Drive
Medina, Ohio 44256
(216) 725-4283 | H.A.F. Spectrum Assoc.
16 Lewis Ave.
Jericho, N.Y. 11753
(516) 433-4615 | 16. Pantronics
500 Fifth Ave.
New York, N.Y. 10036
(212) 244-2855 |
| D. E. Bond Assoc.
P. O. Box 11331
Albuquerque, N.M. 87112
(505) 247-3442 | 9. Automated Equipment &
Engineering, Inc.
648 Center Ave.
Pittsburgh, Pa. 15229
(412) 931-7616 | 12. R. P. Kennedy Co., Inc.
39 Saginaw Dr.
Rochester, N.Y. 14623
(716) 271-6322 | 17. R-O-R Assoc., Ltd.
1470 Don Mills Rd.
Don Mills, Ontario
(416) 444-4403 |
| D. E. Bond Assoc.
P. O. Box 12293
El Paso, Texas 79912
(915) 532-4048 | 10. Reynolds & Assoc., Inc.
4677 N. W. First St.
Ft. Lauderdale, Fla.
(305) 581-6611 | R. P. Kennedy Co., Inc.
Green Tree Dr., North
Hyde Park, N.Y. 12538
(914) 229-2269 | R-O-R Assoc., Ltd.
3285 Cavendish Blvd.
Montreal 28, P.Q.
(514) 482-8430 |
| 4. Simpson Enterprises
P. O. Box 3066
Southeast Station
Wichita, Kansas 67203
(316) 943-0502 | Reynolds & Assoc., Inc.
P. O. Box 13088
St. Petersburg, Fla.
(813) 345-2128 | R. P. Kennedy Co., Inc.
P. O. Box 54
Fayetteville, N.Y. 13066
(315) 637-9531 | R-O-R Assoc., Ltd.
1210 Southwood Dr.
Ottawa 5, Ontario
(613) 828-1330 |
| Simpson Enterprises
P. O. Box 3873
Kirkwood, Mo. 63122
(314) 965-1115 | Reynolds & Assoc., Inc.
1224 E. Colonial Drive
Orlando, Fla.
(305) 841-4840 | 13. Kastle Associates
354 N. Main St.
Doylestown, Pa. 18901
(215) 348-4466 | 18. Data Device Corporation
240 Old Country Rd.
Hicksville, N.Y. 11801
(516) 433-5330 |



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Phone: 516-433-5330



July 5, 1966

NEW....

Operational Amplifiers

Miniature Power Supplies

Ultrasensitive Relay/Comparators

The enclosed Short Form Catalog and Price List describe a number of new DDC amplifiers which combine DDC's "assured reliability" with excellent performance, at low cost.

New D-9 Operational Amplifier has 5mA output at up to 50kc with a unity gain bandwidth of 20MHz, typically. At \$29.00 (in quantities of 10 - 24), it has become widely accepted for applications requiring higher currents and/or greater frequency for full output than the general purpose D-8. The 2.2mA D-8, with equally good offset current and stability, now costs only \$26.00 in the same quantities.

The new D-22 and D-22-9 Amplifiers have 20mA output with high gain and high stability. They are available in the standard 1-1/8" x 1-1/8" package or in the -9 package, with the .3" grid spacing used by some of our competitors. Their low cost and good performance make them excellent replacements for units you may now be using. If you can get along with a little less stability, the low cost D-11 and D-11-9 counterparts are even more economical.

D-16 High Input Impedance Amplifier (150 meg Ω common mode) gets its performance without FET's — uses proven, reliable Darlington inputs. Improved performance includes offset currents of less than 10na, current drift that is typically better than 0.1na/°C, and makes it ideal for integrators and other high stability applications.

Instant Modular Power packages - "IMP" — are now available to power your amplifiers. Two R-15's (± 25 mA) or one R-16-2 (± 250 mA) will supply dual ± 15 V tracking voltages in tiny, card mounting packages. For extra convenience, you can specify complete C-Series AC powered amplifiers which mount amplifiers, power supply, and feedback components on a single standard 4-1/2" x 6-1/2" printed circuit card.

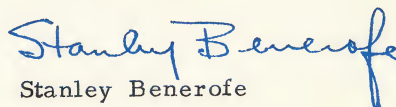
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New Low Prices on most DDC amplifiers are the result of DDC's increased volume and greater efficiency in production, testing, and quality control. (Prices start at \$18 — for the D-6 — an excellent amplifier for many applications. Try them in your circuits.)

After you have reviewed the catalog, we hope you'll order for evaluation or production. Most amplifiers are available from stock or on short notice. Alternately, feel free to call our Applications Engineering Department or our Engineering Representative in your area for more data.

We look forward to working with you.

DATA DEVICE CORPORATION


Stanley Benerofe
Sales Manager

SB/m